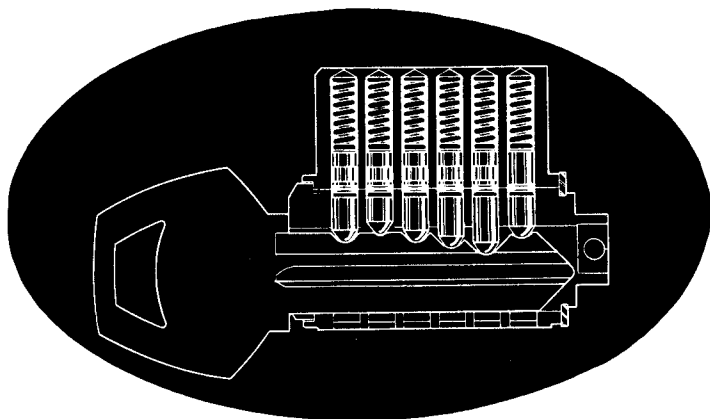




KEYING MANUAL



HARDWARE GROUP

EMHART

CORBIN DIVISION
225 EPISCOPAL ROAD
BERLIN, CT 06037 U.S.A.



MASTER KEYING MANUAL

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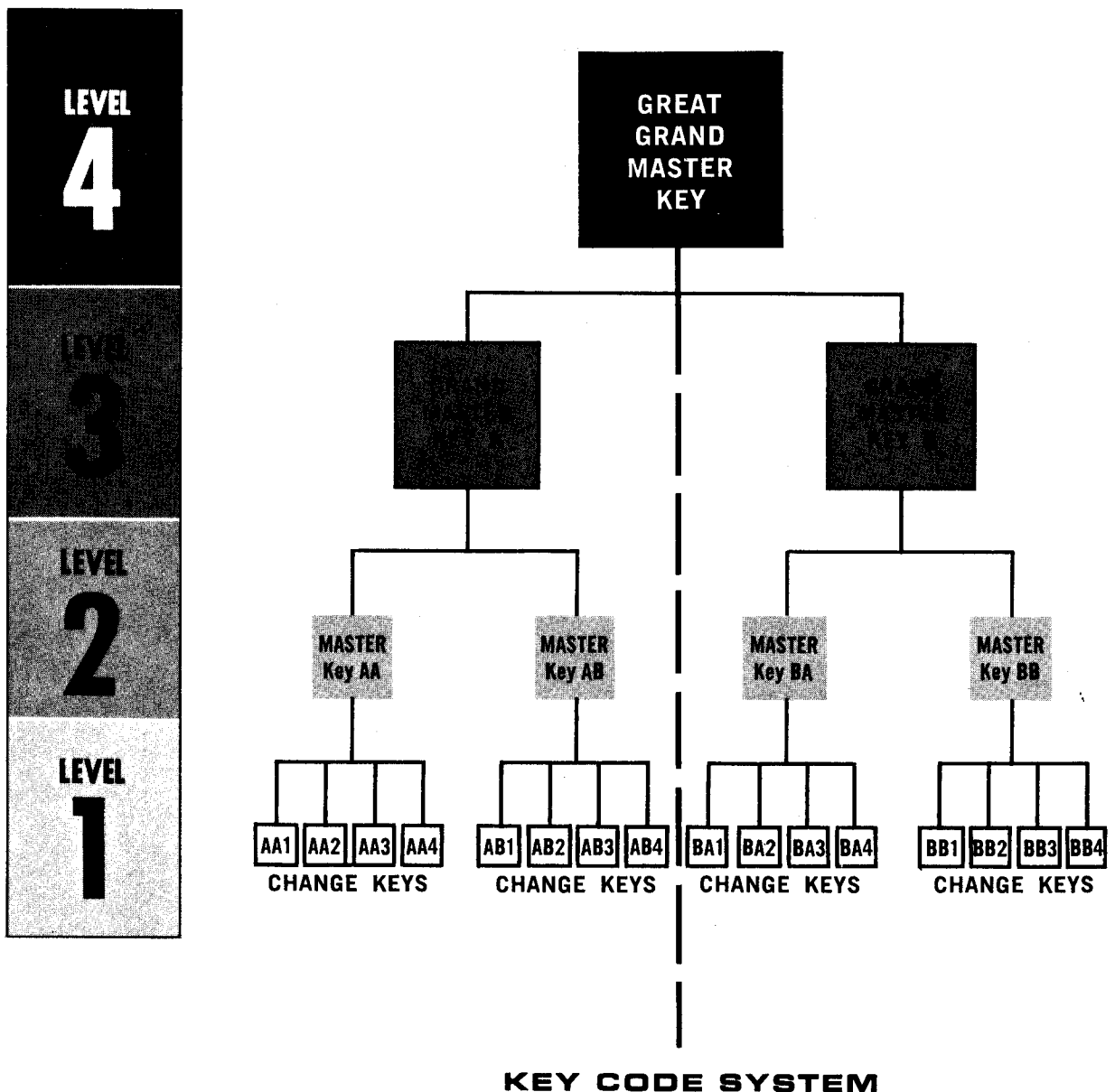
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WHAT IS MASTER KEYING?

MASTER KEYING IS A SYSTEM OF KEYS SET UP TO PLACE THE **SECURITY CONTROL** OF A BUILDING OR GROUP OF BUILDINGS UNDER THE JURISDICTION OF DESIGNATED INDIVIDUALS IN CHARGE.

WHAT ARE THE LEVELS OF CONTROL IN MASTER KEYING ?



A SUGGESTED GUIDE IN DETERMINING OR SELECTING THE PROPER LEVEL OF CONTROL

The following is a suggested guide in determining or selecting the proper level of control:

ONE LEVEL - CHANGE KEY

All locks operated by change keys only, and keyed different or alike as required,

Example: - Homes, Stores, etc.

TWO LEVELS - MASTER KEY

All locks operated by change keys and a MASTER KEY. Examples: Small Schools, Apartments, etc.

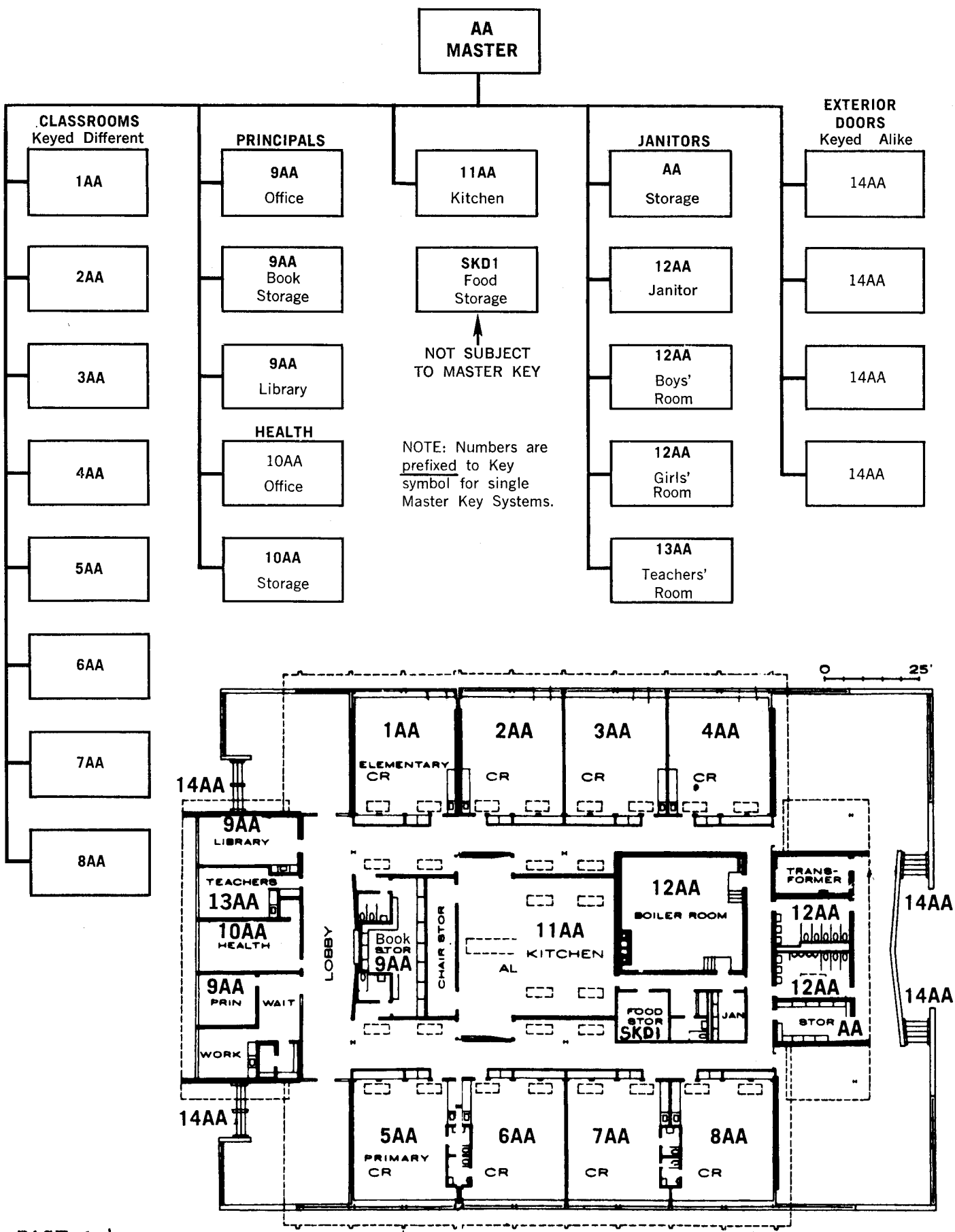
THREE LEVELS - GRAND MASTER KEY

All locks operated by change keys, master keys and a GRAND MASTER KEY. Examples: Office Buildings, Hospitals, etc.

FOUR LEVELS - GREAT GRAND MASTER KEY

All locks operated by change keys, master keys, grand master keys and a Great Grand Master Key. Examples: Colleges, Universities, Industrial Complexes.

MASTER KEY SYSTEM SCHOOL



HOW TO SCHEDULE KEYING - MASTER KEY SYSTEM

THE KEYING SHOWN ON THE OPPOSITE PAGE IS A SINGLE MASTER KEY SYSTEM.

THE FOLLOWING ILLUSTRATES HOW THE SYMBOLS SHOULD BE SHOWN ON YOUR HARDWARE SCHEDULE AND A BRIEF EXPLANATION OF THEIR MEANING:

THERE IS NO NEED TO EXPLAIN THESE KEYING SYMBOLS TO THE FACTORY AS EACH SYMBOL HAS A MEANING.

<u>KEY SYMBOL</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
<u>HEADING #1</u>		
1AA THRU 8AA	8	DOORS — CORRIDOR FROM CLASSROOM
<u>HEADING #2</u>		
9AA	1	DOOR — WAITING ROOM TO PRINCIPAL
<u>HEADING #3</u>		
9AA	2	DOORS — LOBBY TO BOOK STORAGE
<u>HEADING #4</u>		
SKD1	1	DOOR — KITCHEN FROM FOOD STORAGE
<u>HEADING #5</u>		
AA	1	DOOR — CORRIDOR FROM EQUIPMENT STORAGE

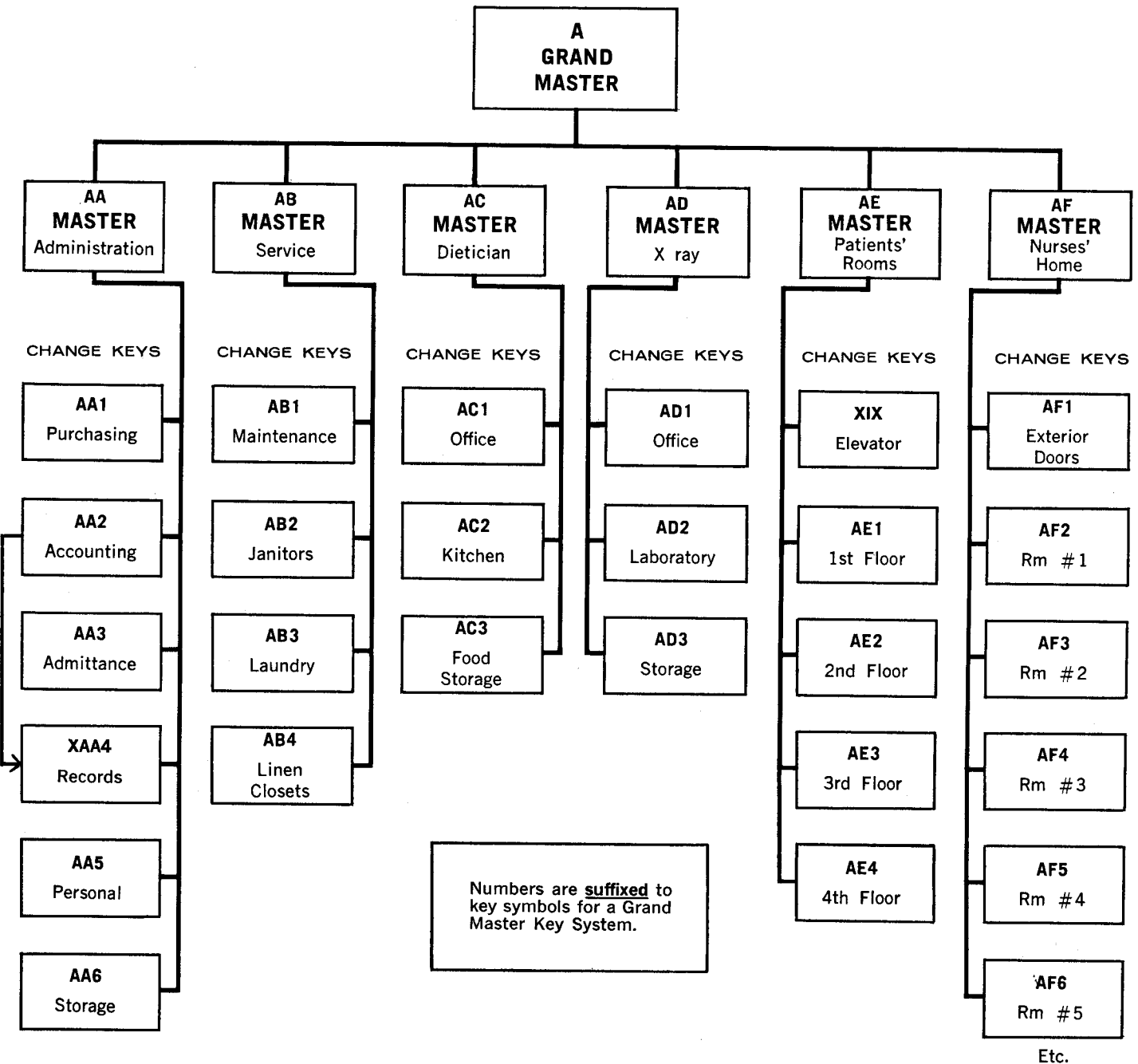
THE KEY SYMBOLS 1AA THRU 8AA FOR HEADING #1 INDICATES THAT THESE 8 DOORS ARE KEYED DIFFERENT AND SUBJECT TO THE MASTER KEY AA.

THE KEY SYMBOL 9AA FOR HEADINGS #2 AND #3 INDICATES THAT THE 3 DOORS ARE KEYED ALIKE AND SUBJECT TO MASTER KEY AA.

THE KEY SYMBOL SKD1 FOR HEADING #4 SIGNIFIES A SINGLE CHANGE KEY NOT SUBJECT TO THE MASTER KEY.

THE KEY SYMBOL AA FOR HEADING #5 INDICATES THAT THIS DOOR IS SUBJECT TO THE MASTER KEY AA ONLY NO CHANGE KEYS.

GRAND MASTER KEY SYSTEM HOSPITAL



INFORMATION REQUIRED FOR ORDERING

THIS IS A CONSTRUCTION MASTER KEY JOB
STAMP ALL CONSTRUCTION MASTER KEYS - CONSTRUCTION MASTER
SHIP ALL CHANGE KEYS TO:

SHIP ALL CONSTRUCTION MASTER KEYS TO:

SHIP MASTER AND GRAND MASTER VIA REGISTERED MAIL TO:

TAG ALL CHANGE KEYS WITH CONSECUTIVE NUMBERS

LABEL ALL LOCKS AND CYLINDERS CONSECUTIVELY
TO CORRESPOND WITH CHANGE KEYS

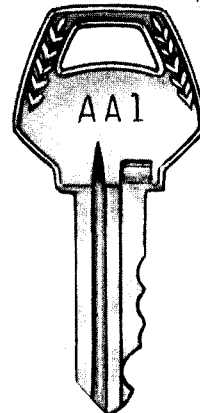
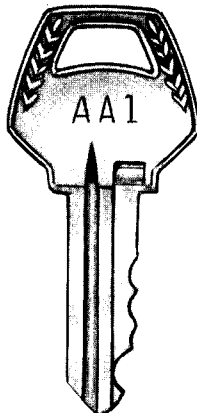
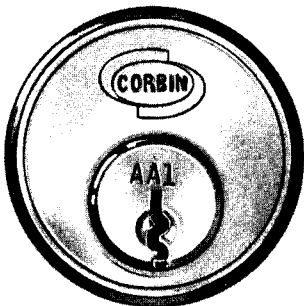
PACK ALL LOCKS AND CYLINDERS LESS KEYS

3	GMK	"A"	
3	MK	"AA"	(ADMINISTRATION)
3	MK	"AB"	(SERVICE)
3	MK	"AC"	(DIETICIAN)
3	MK	"AD"	(X-RAY)
3	MK	"AE"	(PATIENTS' ROOMS)
3	MK	"AF"	(NURSES' HOME)

XAA4 OPERATED BY AA2 - MK "AA" AND GMK "A"
X1X LESS KEYS OPERATED BY AE1 - AE2 - AE3 - AE4
MK "AE" AND GMK "A"

(NOTE: TWO CROSS KEYED KEY SYMBOLS SHOWN ABOVE ARE THE ONLY SYMBOLS
REQUIRING AN EXPLANATION AS THEY ARE OPERATED BY OTHER KEYS ON JOB.)

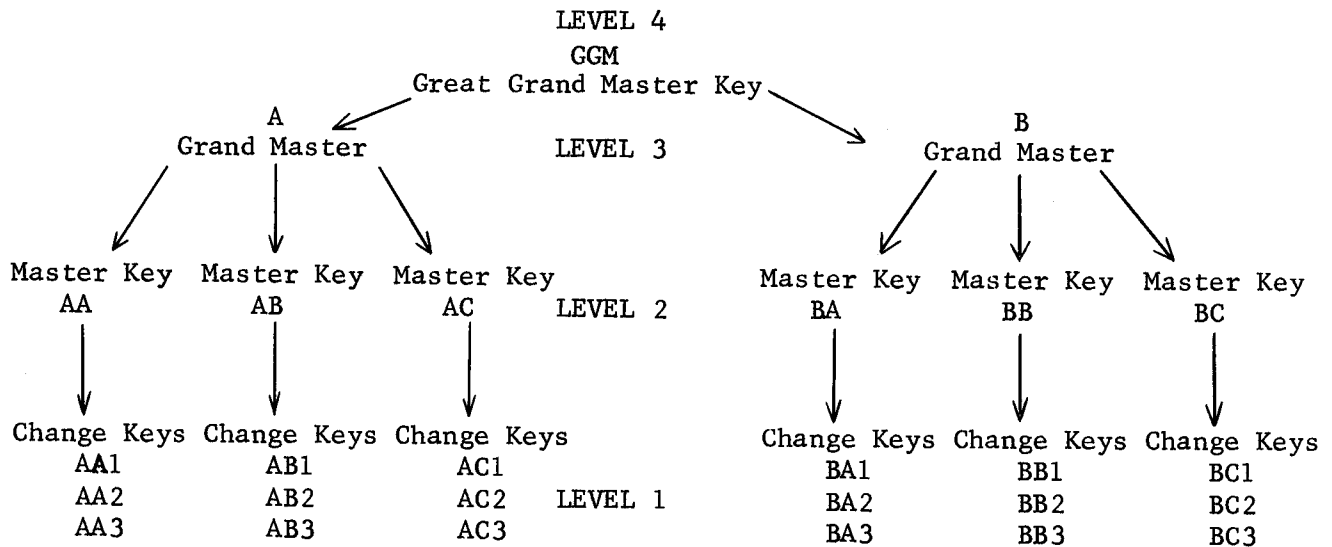
THIS IS A VISUAL KEY CONTROL SYSTEM.
STAMP BOTH KEYS AND PLUGS WITH KEY SYMBOLS.



PHASE I

Levels of Control in Master Keying

The establishment of the proper level of control for a master key system is of paramount importance. Only when this has been determined, are you ready to lay out the system. One of the main reasons many master key systems are inadequate, is the fact that they were not established at the proper level when originally set up. The chart shown below will assist you in making this determination.



This key code system automatically indicates every key that operates in each cylinder. Key symbol AA1 indicates a lock operated by AA1 change key, AA Master and A Grand Master also Great Grand Master Key. The change key number is repeated for any alike cylinders. A different change key number is used for each keyed different cylinder such as AA2, AA3, AA4, etc.

Sub Master Keys:

In the case where sub-master keys are required in a grand or great grand master key system to sub-divide floor or department master keys, these keys can be setup as follows:

<u>Master Key</u>	<u>Sub Master</u>	<u>Change Keys Under Sub Master</u>
AA	AAA	AAA1, AAA2, etc.
	AAB	AAB1, AAB2, etc.
	AAC	AAC1, AAC2, etc.

KEY - CODE - SYSTEM

PHASE III

CROSS KEYING

Cross keying can be divided into two classifications:

1. Controlled cross keying.
2. Uncontrolled cross keying.

Controlled Cross Keying - is where two or more change keys under the same master key must operate one cylinder.

Uncontrolled Cross Keying is where two or more change keys under different master keys must operate one cylinder. Also, where two or more master or grand master keys must operate one cylinder.

These conditions should be eliminated as much as possible as they can greatly reduce the available changes and master keys in a keying system.

The key symbols established in Phase I & II of the Key - Code - System automatically indicates each change key, master key, grand master key, etc. that operates each cylinder. When cross keying is involved, the key symbol in itself, does not indicate all of the keys that operate each cylinder, therefore, another type of key symbol is required. These cross keyed sets must be prefixed with the letter, "X" and explain each of the different keys that must operate each set. List these cross keyed sets on the first page of the keying instructions.

The following are the two basic methods used in establishing key symbols for cross keyed sets.

Method I - (lock has individual change key).

XAA4 - operated by AA1, AA2, AA3, AA Master and A Grand Master.

Method II (lock does not have its own change key).

XIX - less keys operated by AA1, AA2, AA3, AA master and A grand master.

X2X - " " " " AA1 thru AA25, AA master and A grand master.

QUESTIONS

I. What are the steps in pre-planning a keying system?

1. Study - understand and be able to explain the subject of masterkeying to the architect and/or owner.
2. Review the plans of the building or buildings.
3. Choose the proper level of control required.
4. Select a keying system which will cover the present and future requirements.
5. Present the system to the architect and owner at the keying meeting.
6. Record all changes to the system as agreed to at the keying meeting.
7. Mark plans with proper key symbol at each door opening on the side of the door where the key is to operate.
8. Present the owner with a schematic layout of the entire system showing the layout of the masters, grand masters, etc.

ADVANTAGES

II. What are some of the advantages of the Key - Code - System?

1. Uniform standardized method for setting up keying systems.
2. Allows continuity of the keying system from one order to the next.
3. The key symbol AA1, etc. automatically indicates all the keys that operate each cylinder.
4. Eliminates a lot of extra writing as the key symbol in itself fully explains the function and use of each key in the system.
5. Reduces the amount of crosskeying as it requires an "X" symbol whenever you deviate from standard keying system procedures based on the proper levels of control.
6. Allows the development of visual projected charts of the entire keying system.
7. Offers a method of projecting future keying requirements.
8. Allows better control of keys in the system.
9. Simple method of selling and explaining keying systems to a customer.
10. Allows the owner to fully understand and appreciate the keying system he has purchased.

INDEX OF MASTER KEY SYSTEMS

SINGLE MASTER KEY SYSTEMS

REGULAR CYLINDERS

<u>MASTER SYSTEM NO.</u>	<u>MAX. CHGS. PER MASTER</u>	<u>NO. OF PINS</u>	<u>NO. OF KEY SECTIONS</u>
1	50	5	1
2	100	5	1
3	200	5	1
4	300	5	1
5	400	5	1
6	500	5	1
7	750	6	1
8	1000	6	1
9	1250	6	1
10	1500	6	1
11	1750	6	1
12	2000	6	1

GRAND MASTER KEY SYSTEMS

REGULAR CYLINDERS

<u>GRAND MASTER SYSTEM NO.</u>	<u>MK/PER GRAND</u>	<u>MAX. CHGS. PER MASTER</u>	<u>MAX. CHGS. SYSTEM</u>	<u>NO. OF PINS</u>	<u>NO. OF KEY SECTIONS</u>
13	2	175	350	5	1
14	3	175	525	5	1
15	4	150	600	5	1
16	6	55	330	5	1
17	2	800	1600	6	1
18	3	500	1500	6	1
19	4	400	1600	6	1
20	6	250	1500	6	1

GRAND MASTER KEY SYSTEMS

REGULAR & MASTER RING CYLINDERS

<u>GRAND MASTER SYSTEM NO.</u>	<u>MK/PER GRAND</u>	<u>MAX. REG. CHGS. /MK</u>	<u>TOTL. REG. CHGS.</u>	<u>AVER. M. R. CHGS/MK</u>	<u>TOTAL MR CHGS.</u>	<u>NO. OF PINS</u>	<u>NO. OF KEY SECTIONS</u>
21	8	144	1152	1500	12000	6	1
22	10	144	1440	1200	12000	6	1
23	12	144	1729	1000	12000	6	1
24	16	96	1536	750	12000	6	1
25	20	48	960	600	12000	6	1
26	24	48	1150	500	12000	6	1

GREAT GRAND MASTER KEY SYSTEMS
REGULAR & MASTER RING CYLINDERS
(NO. OF PINS - 6)

<u>GGM SYSTEM NO.</u>	<u>GM</u>	<u>MK/ PER GRAND</u>	<u>MAX. REG. CHGS/ MK</u>	<u>TOTAL REG. CHANGES</u>	<u>AVER. M.R. CHGS. / MK</u>	<u>TOTAL M.R. CHGS.</u>	<u>NO. OF KEY SECTIONS</u>
27	1	2	576	1152	6000	12000	1
28	1	4	144	576	3000	12000	1
29	1	8	144	1152	1500	12000	1
30	1	12	96	1152	1000	12000	1
31	1	16	96	1536	750	12000	1
32	1	24	48	1152	500	12000	1
33	2	2	144	576	3000	12000	1
34	2	4	48	384	1500	12000	1
35	2	6	48	576	1000	12000	1
36	2	8	48	768	750	12000	1
37	3	2	48	288	2000	12000	1
38	3	4	36	432	1000	12000	1
39	3	6	12	216	650	12000	1
40	3	8	12	288	500	12000	1
41	4	2	36	288	1500	12000	1
42	4	4	36	576	750	12000	1
43	4	6	12	288	500	12000	1
44	4	8	12	384	375	12000	1
45	4	4	108	1728	3000	48000	4
46	4	8	108	3456	1500	48000	4
47	4	16	48	3072	750	48000	4
48	4	24	48	4608	500	48000	4
49	8	4	144	4608	1500	48000	4
50	8	8	48	3072	750	48000	4
51	8	16	48	6144	375	48000	4
52	8	24	24	3608	250	48000	4
53	12	4	36	1648	1000	48000	4
54	12	8	24	2304	500	48000	4
55	12	16	12	2304	250	48000	4
56	8	8	108	6912	1500	96000	8
57	8	16	48	6144	750	96000	8
58	8	24	48	9216	500	96000	8
59	16	8	48	6146	750	96000	8
60	16	16	48	12208	375	96000	8
61	16	24	24	9136	250	96000	8
62	24	8	42	8064	500	96000	8
63	24	16	12	4608	250	96000	8
64	24	24	12	6912	165	96000	8
65	24	12	64	18432	333	96000	8
*70	24	24	75	43200	520	300000	8

*System 70 is a new system with (6) bitting depths of .028

Keying system #65, is an ideal plan for rekeying existing colleges and universities, that utilize the system to its maximum keying potential, yet is flexible enough to achieve the desired key control required. This flexibility is accomplished through the use of (7) keying variables. This system can be initiated on a new campus building and gradually rekey the entire campus when time and funds become available. In another case, the need may be such that this system be initiated on present buildings where key control is very poor.

1. The first step in explaining this system to a customer is to show the advantage of the Great Grand Master Key. This key is usually held only by the College President and Superintendent of Buildings & Grounds, and is used for Inspections, Tours and Emergencies.
2. The next step is to explain the advantages of establishing an Engineer's key. This key is (in effect, a limited great grand master) used by Maintenance men and operates only the mechanical rooms in all buildings. This key can be set up in any lock in the system to allow access through outside doors of each building to gain access to these mechanical rooms.

At the present time, many of these maintenance men are carrying a large ring of building masters, allowing them access not only to mechanical rooms, but every room including Private Office, Storage and Security areas in each building. If any of these building masters are lost, stolen or duplicated, the entire campus becomes vulnerable.

3. The third step in setting up this system is to assign the grand master keys. With the building layout plan of the campus, these grand master keys can be assigned by function such as Administration, Boy's Dorms., Girl's Dorms., Athletic, School of Liberal Arts, School of Business Administration, etc.

Separate the Keyways for these various functions which will then allow you to expand each function in one Keyway.

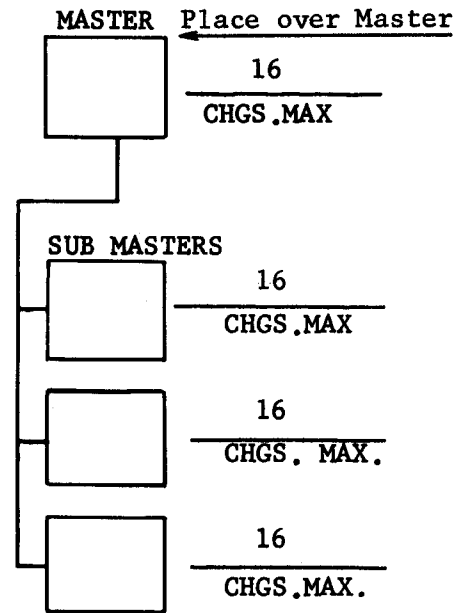
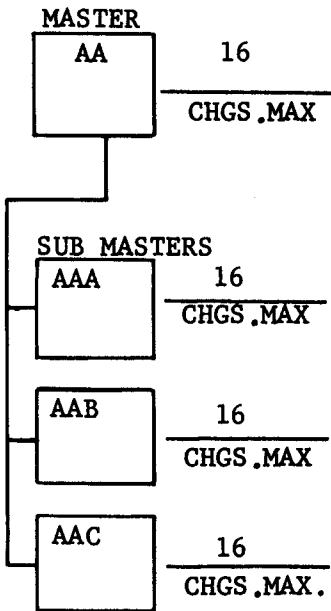
4. The fourth step in setting up this system is to assign the master keys under each grand master key.
5. A complete study of the (7) Variables allowed in this system is necessary in order to achieve the maximum keying potential of the system, especially when rekeying old buildings which have the single plug cylinders. The master ring cylinder can be used in new buildings and special notice should be taken of the maximum regular (single plug) changes allowed when these cylinders must be mixed with master ring locks. We now have the master ring cylinder available on almost all of the locks we make and for template reasons, special care should be taken when ordering these locks for Exit Fixtures, Mortise Deadbolt Locks, etc.
6. Keying System #65 has a potential of 20,000 single plug key changes plus a maximum of 100,000 master ring key changes.

If you now have a college or university, Corbin Grand or Great Grand Master System in the 57 or 59 Series Keyways, request a large chart of this system. Keying System #65 removes much of the mystery in master keying by offering an organized plan which allows the school authorities to take an active part in setting up the keying system to meet their present and future needs.

REGULAR CYLINDERS

Any of the 288 masters can be sub-divided when required - into 3 sub-masters

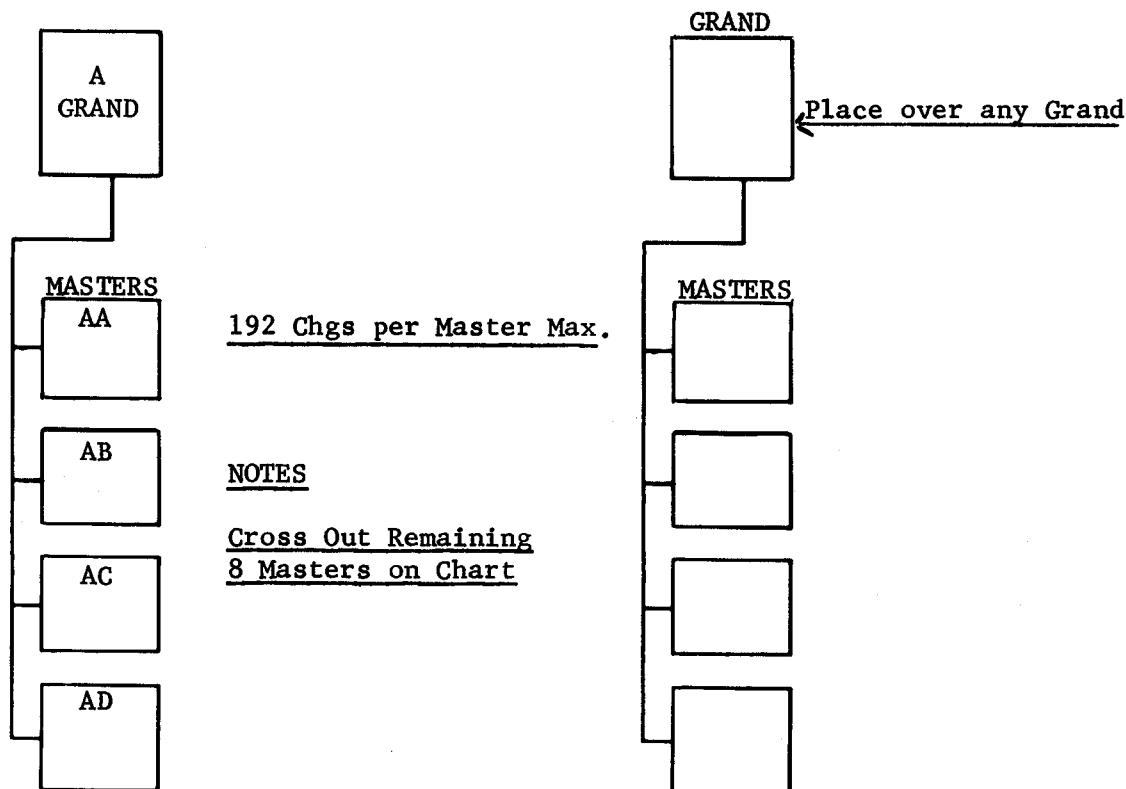
EXAMPLE -



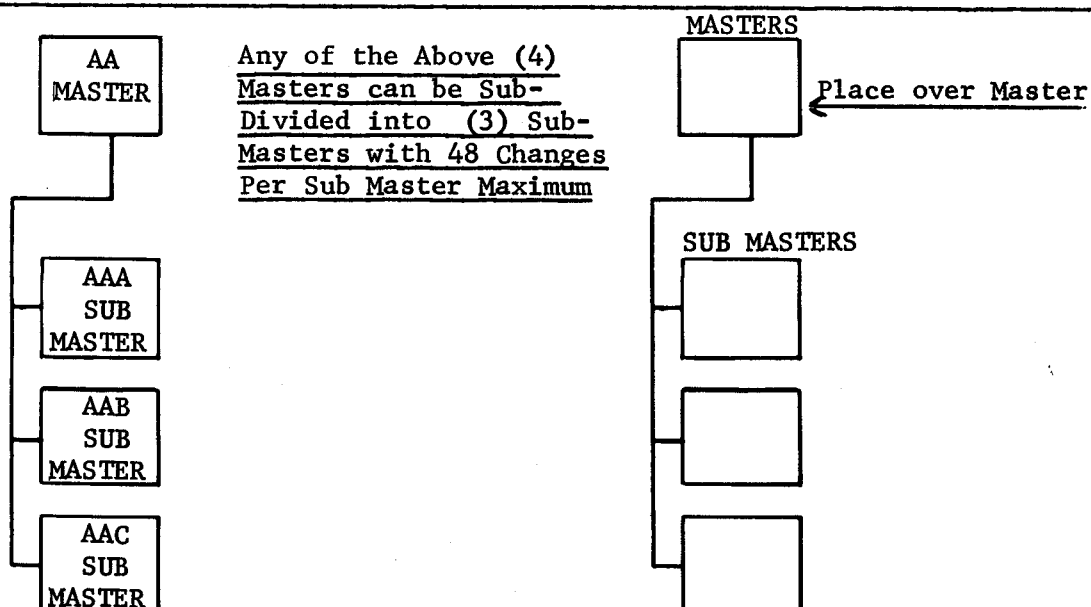
SYSTEM #65 VARIABLE #2 - REGULAR CYLINDERS

THE 12 MASTER KEYS UNDER ANY GRAND MASTER CAN BE REDUCED TO ONLY 4 MASTERS WHEN MORE THAN 64 CHANGES PER MASTER ARE REQUIRED, WHICH WILL THEN ALLOW 192 REGULAR CHANGES PER MASTER MAXIMUM.

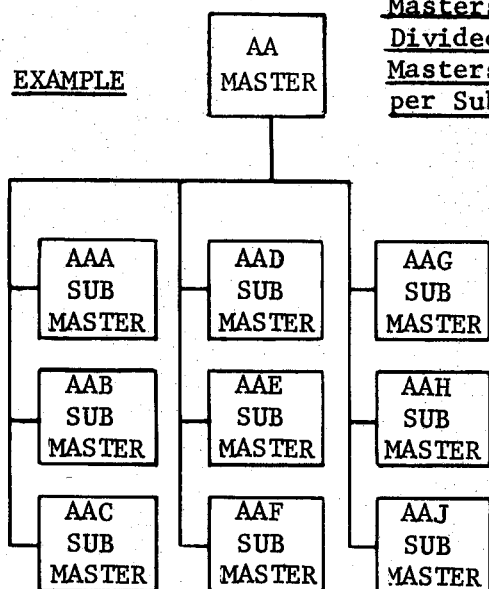
EXAMPLE



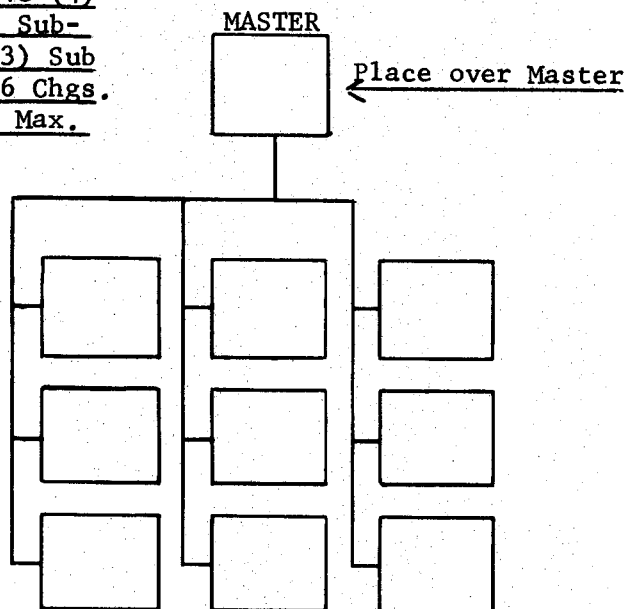
EXAMPLE



EXAMPLE



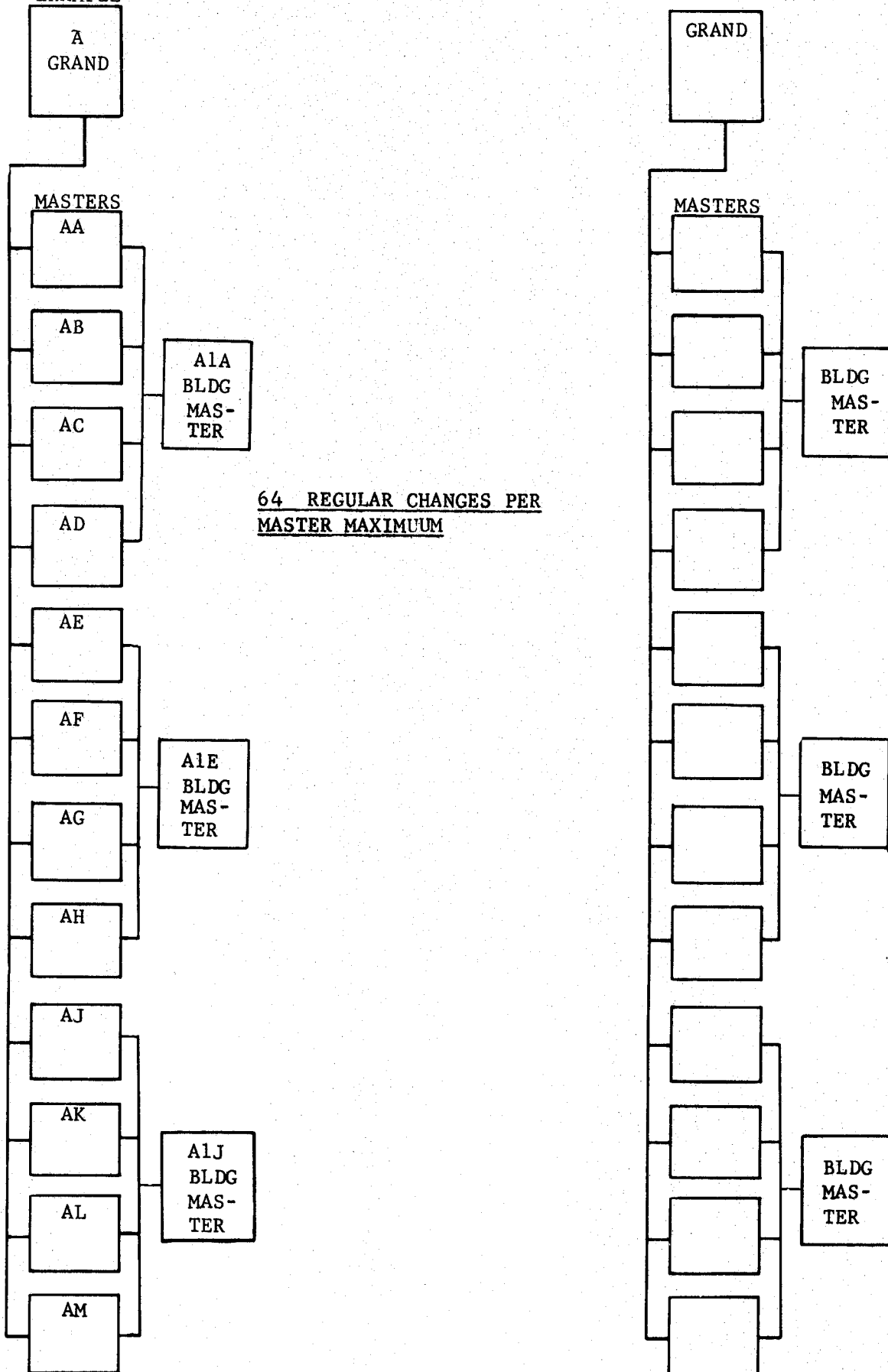
Any of the Above (4) Masters can be Sub-Divided into (3) Sub Masters with 16 Chgs. per Sub Master Max.



SYSTEM #65 - VARIABLE #3
REGULAR CYLINDERS

3 - Special building masters controlling (4) masters can be setup when required using regular type cylinders.

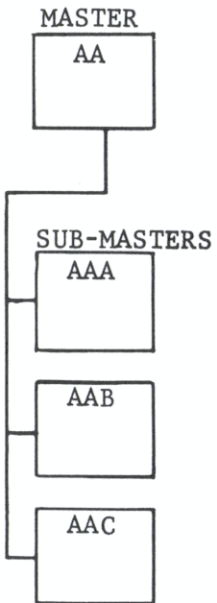
EXAMPLE



MASTER RING CYLINDERS

Any of the 288 masters can be sub-divided when required into 3 sub-masters.

EXAMPLE -



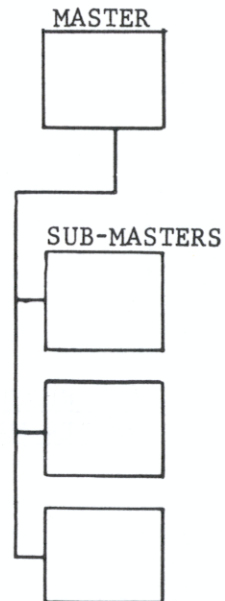
* 111 M. R. CHANGES PER

SUB-MASTER AVERAGE

* REFER TO SYSTEM #65

12 REG. CHANGES PER

SUB-MASTER MAXIMUM

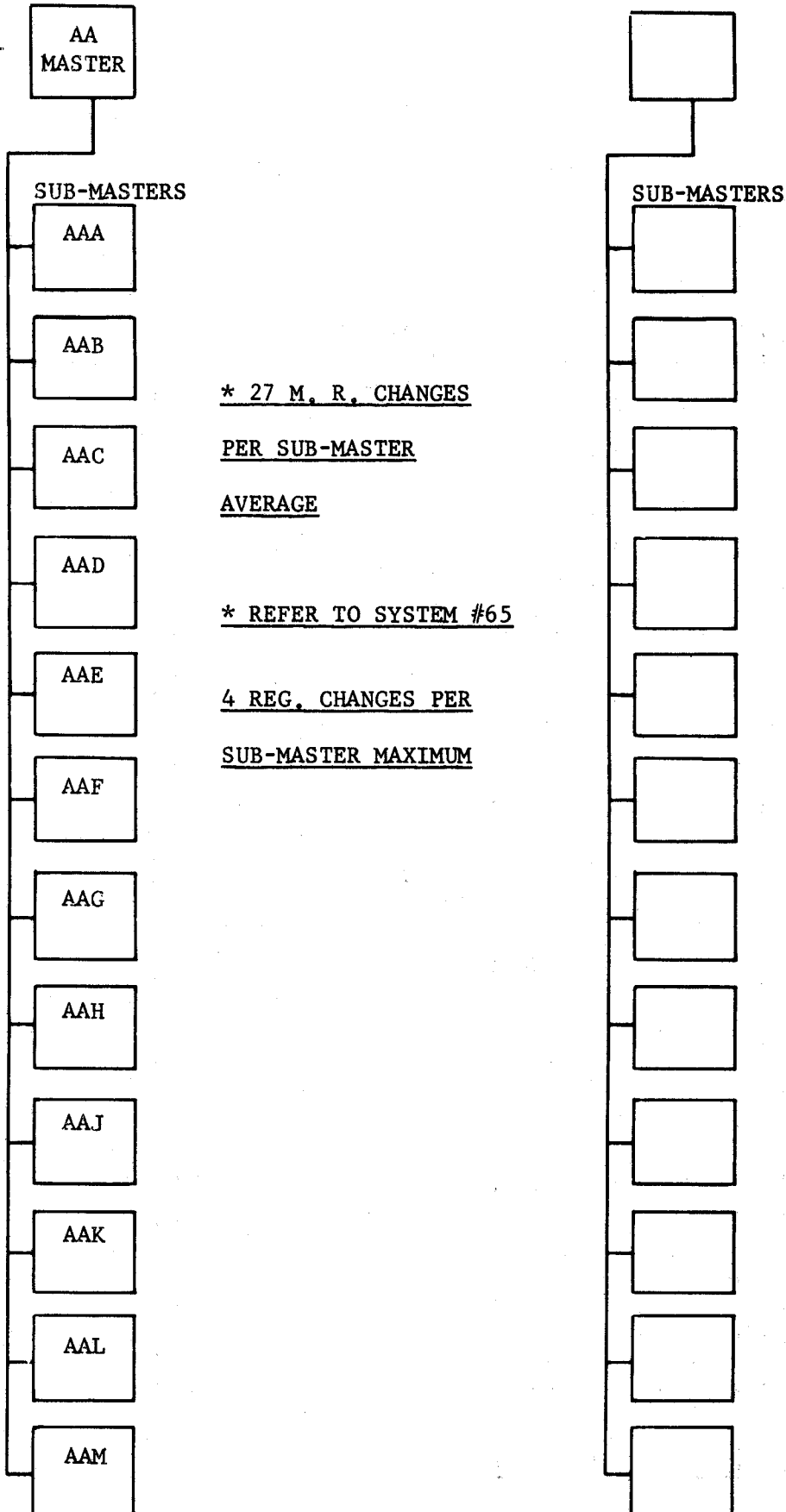


SYSTEM #65 - VARIABLE #5
MASTER RING CYLINDERS

Locks with Corbin Master Ring Cylinders offer maximum security & flexibility in masterkeying.

Any of the 288 masters listed can be "exploded" to equal one Grand & 12 masters where needed using locks with master ring cylinders.

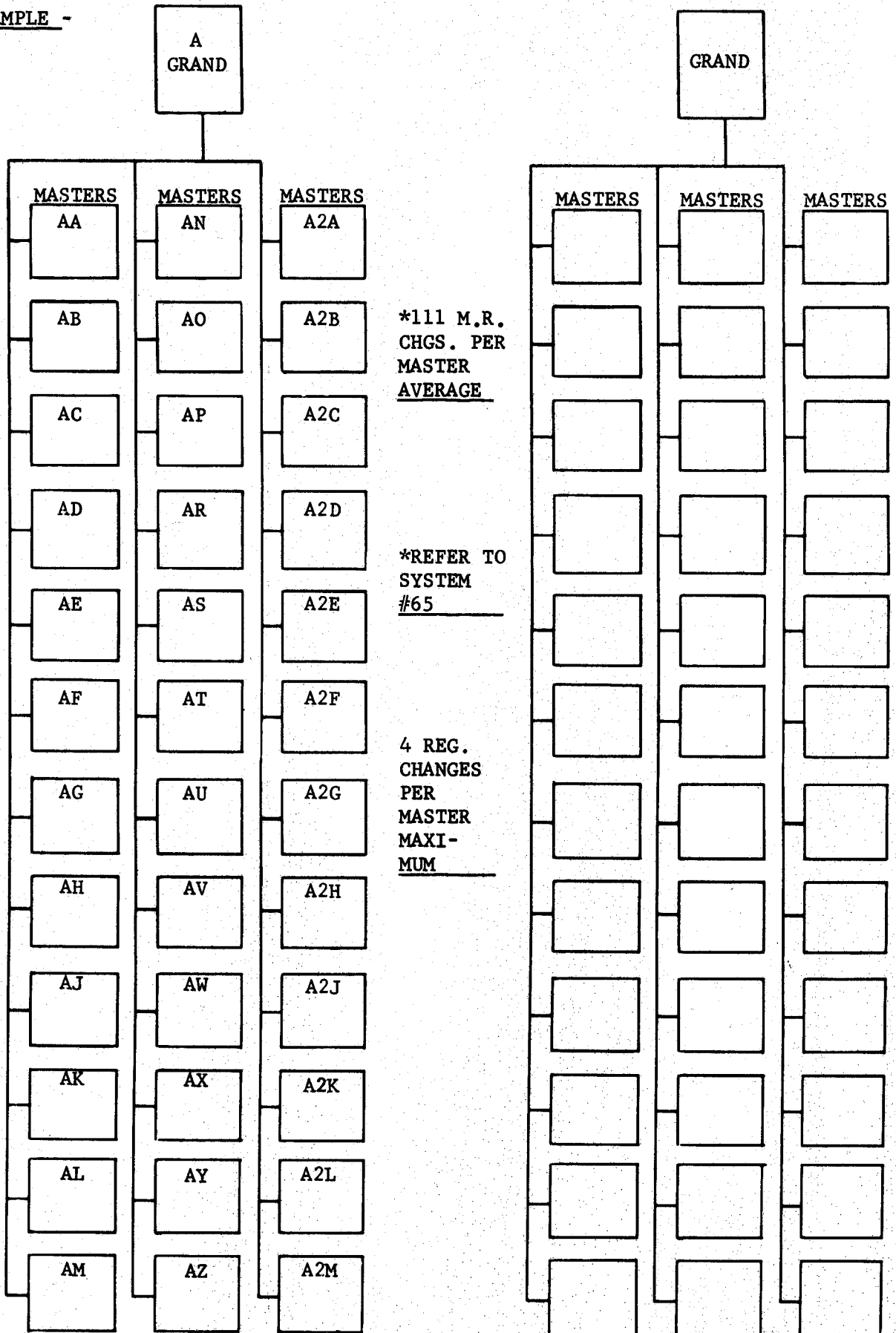
EXAMPLE -



SYSTEM #65 - VARIABLE #6
MASTER RING CYLINDER

36 Master keys can be set up under any Grand Master when required using Master Ring Cylinders.

EXAMPLE -

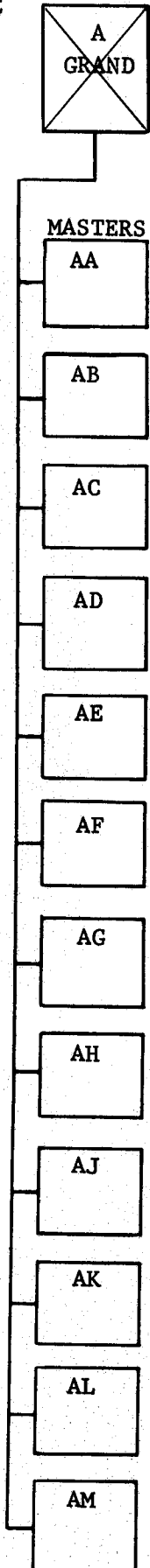


When Masters under the "GGM" only are required, cross out one Grand Master and use the (12) Masters listed.

EXAMPLE

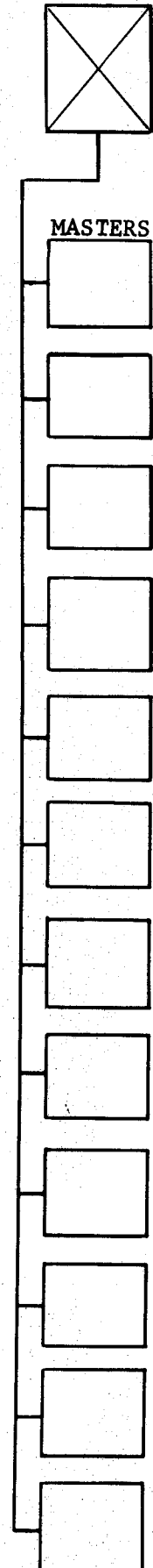
To GGM

To GGM



PREFIX CHANGE KEY NUMBERS

1AA, 2AA, 3AA, ETC.



SECTION B
GLOSSARY
OF
MASTER KEYING TERMS

Master Keying

A system of keys which are set up to place the control of a building or buildings in the individuals responsible for its security.

Master Key System

Single master key, with different change keys set up under this master key.

Grand Master Key System

Grand master key, with two or more master key systems set up under this grand master key.

Great Grand Master Key System

Great grand master key, with two or more grand master key systems set up under this great grand master key.

Types of Keys Used

Change Key

Single key that operates one lock, or group of locks, keyed alike, subject to this same change key.

Master Key

Single key that operates all locks that are keyed different or alike, under this master key.

Grand Master Key

Single key that operates all locks in a large group, which contain two or more individual master key groups, under this grand master key.

Great Grand Master Key

Single key that operates all locks in several large groups of locks, which contain, two or more individual grand master key groups, under this great grand master key.

Glossary of Master Keying Terms
Types of Keys Used

Construction Master Key

Single key that operates all locks, (subject to this key) during construction, but is canceled out, or made inoperative, when the owner's individual change keys are first used in these locks.

Engineer's Key - (Use key symbol "ENG" suffix (Eng.) where this key is to operate locks with other keys: AA26 (Eng.)

Single key that acts the same as a grand or great grand master key, to gain access through many different outside doors, etc., each under different master or grand master keys, in order to reach the room doors which contain electrical, heating, air-conditioning, plumbing and general maintenance areas. This key is a special key which eliminates cross keying, but must be set up at the inception of the system.

Maintenance Master Key

Single key that operates all locks in one or more areas controlled by maintenance supervisor, such as store rooms, janitor's closets, etc.

Maintenance Grand Master Key

Single key that operates all locks which contain two or more maintenance master key groups, under this maintenance grand master key.

Attendant's Key - (Use key symbol "ATT" suffix (Att.) where this key is to operate locks with other keys: AA26 (Att.)

Single key used by attendants in mental institutions, to operate patient's room locks in various buildings under many different master or grand master keys. This key is a special change key that eliminates cross keying, but must be set up at the inception of the system.

Privacy Key - (Use key symbol SKD1, SKD2, etc.)

Single key that operates one lock, or group of locks subject to this same change key, and is not subject to any of the master keys in the system.

This type key is used for food storage rooms, narcotic cabinets in hospitals, liquor storage rooms and bars in hotels, etc.

Hotel Keys

Guest Room Key

Single key that operates an individual room only, and in some cases a closet within this room.

Maids Master Key

Single key that operates a group of individually keyed guest rooms. This key may control all the rooms on one floor (floor master) or as many rooms as predetermined by the hotel management.

Limitations:

- A. Will not operate guest room when door is locked by guest from inside, or locked from outside by the display or emergency key.
- B. Will not operate guest room closet doors.

Laundry Change Key

Single key that operates all linen closets, and laundry chutes on all floors, and is used by laundry men for delivery and disposal of linen.

Laundry Master Key

Single key that operates all locks in laundry section, all linen closets and laundry chutes.

Steward's Master Key

Single key that operates all locks to doors in kitchen, dining rooms, banquet rooms and other doors as predetermined, by the hotel management.

Glossary of Master Keying Terms
Hotel Keys - cont.

Housekeeper's Key

Single key that acts the same as the hotel grand or great grand master key, and operates all guest rooms, display rooms, cleaning closets, linen closets and any other rooms under the housekeeper's control as predetermined by the hotel management.

Limitations:

- A. Will not operate guest rooms, when door is locked by guest from inside, or locked from outside by display or emergency key.
- B. Will not operate guest room closet doors.

Hotel Grand Master Key

Single key that operates all locks throughout the hotel, with the exception of privacy doors.

Limitations

- A. Will not operate guest rooms, when door is locked by guest from inside, or locked from outside by display or emergency key.

Hotel Great Grand Master Key

This key acts the same as a Hotel Grand Master Key, and used on larger hotels, where more than one grand master key system is set up under this great grand master key.

Limitations

Same as Hotel Grand Master Key.

Emergency Key

Special key that operates all guest rooms, display rooms, and is used in an emergency to unlock a guest room door, which has been locked from the inside, should a guest become ill, and can also be used as a lockout key to prevent all other keys from operating this room door.

Glossary of Master Keying Terms
Hotel Keys - cont.

Display Key

Special key that operates an individual room only, such as a display room, or permanent guest room. This key can lock and unlock this room door from the outside, and prevent all keys, with the exception of the emergency key from operating.

Control Key

Special key used to remove cylinder on key removable cylinders.

Special Master Key Terms

Keyed Alike

Two or more cylinders operated by the same change key.

Keyed Different

One or more cylinder keyed to different change keys.

Subject to Master Key Only

Cylinders set up to be operated by only the master key.

Subject to Grand Master Key Only

Cylinders set up to be operated by only the grand master key.

Subject to Great Grand Master Key Only

Cylinders set up to be operated by only the great grand master key.

Cylinders subject to Grand Master and Change Key Only

Cylinders set up to be operated by a change key and grand master key only.

Cylinders subject to Great Grand Master and Change Key Only

Cylinders set up to be operated by a change key and great grand master key only.

Controlled Crosskeying

Two or more change keys under one master key operating one cylinder.

Glossary of Master Keying Terms
Special Master Key Terms - cont.

Uncontrolled Crosskeying

Two or more change keys under different master keys operating one cylinder. Two or more master keys or grand master keys operating one cylinder.

Note: Uncontrolled crosskeying of change keys and master keys should be discouraged.

Technical Master Key Terms

Multiplex Master Keying

Method of enlarging a given master key system, by repeating the system on additional key sections. The keys in the first system will not enter the cylinders in the second section etc., because of the different shapes of the key warding. The grand master key can be milled special to enter all the different key sections as desired.

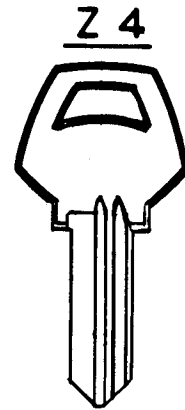
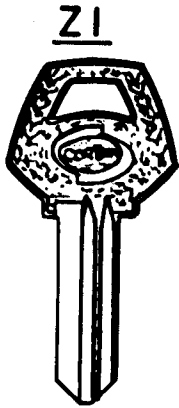
Split Pin Master Keying

This is accomplished by splitting the pins in the plug, and using small master split pins, to accomodate the different keys desired, such as change, master, grand master, etc.

Master Ring Master Keying

This is accomplished by a special master ring around the plug, which then allows only the change key in the plug, and the master keys in the ring. This is sometimes referred to as having two cylinders in one and it greatly increases the security of a master keyed cylinder, as well as allowing for considerably more available different change keys, master keys, etc., in larger keying systems.

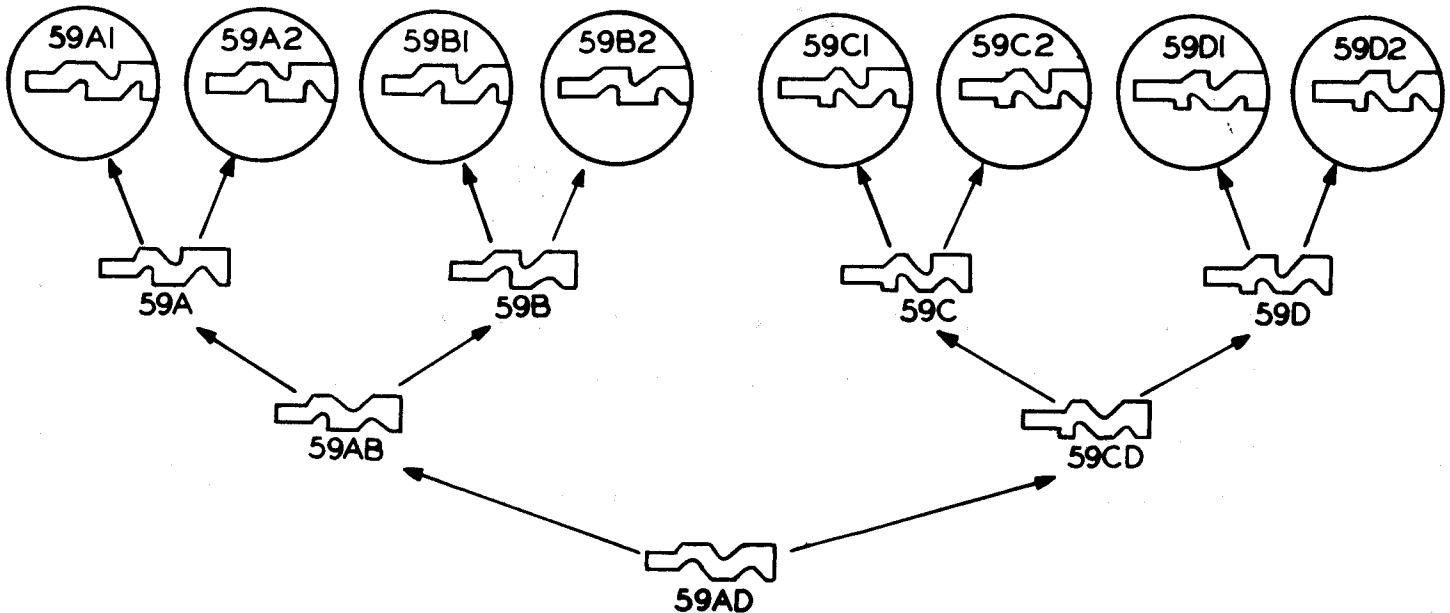
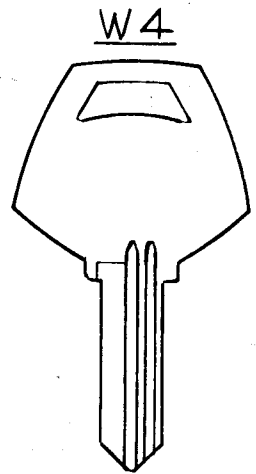
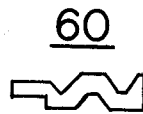
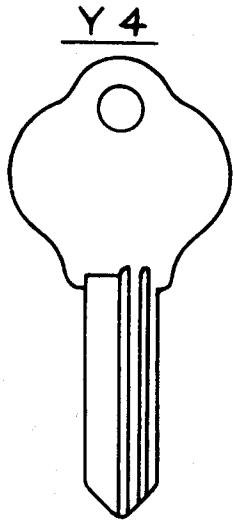
P&F CORBIN
BOW STYLES



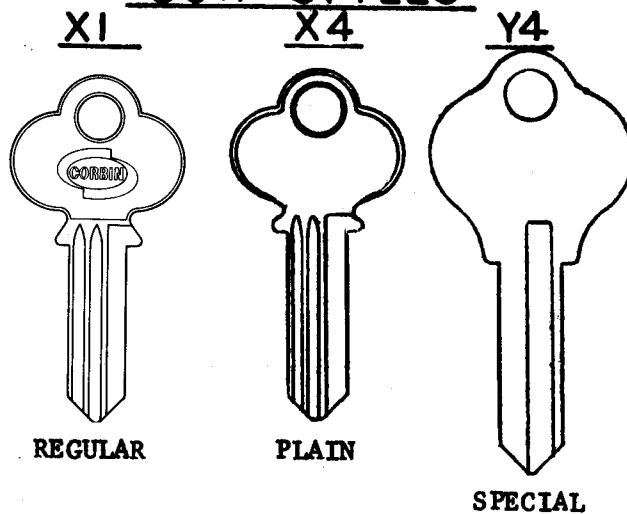
5, 6, & 7 ACTIVE PINS

TO ORDER KEY BLANKS Z1 — 60 — 5 = (SAMPLE)

<u>BOW STYLE</u>	<u>KEY SECTION</u>	<u>No. OF ACTIVE PINS</u>



P&F CORBIN BOW STYLES

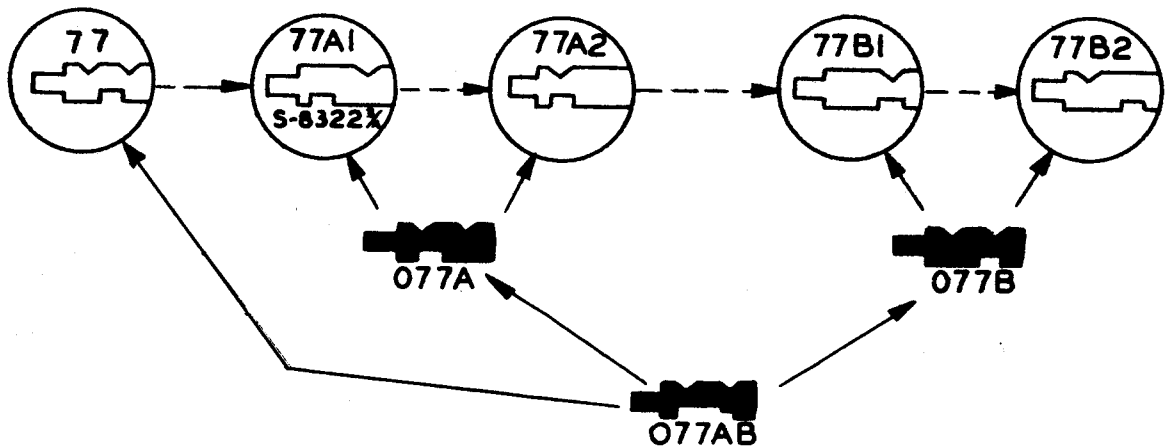


TO ORDER KEY BLANKS X1 - 77 - 5 = (SAMPLE)

5,6,&7 ACTIVE PINS KEY SECTION BOW STYLE

No. OF ACTIVE PINS

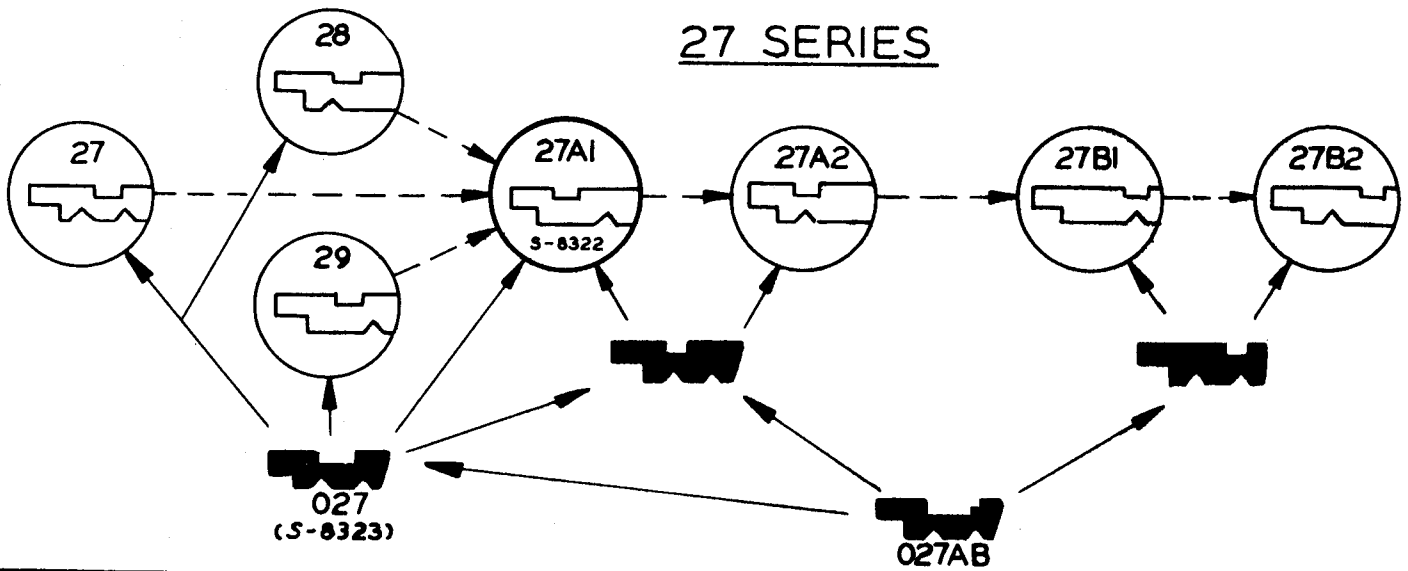
77 SERIES



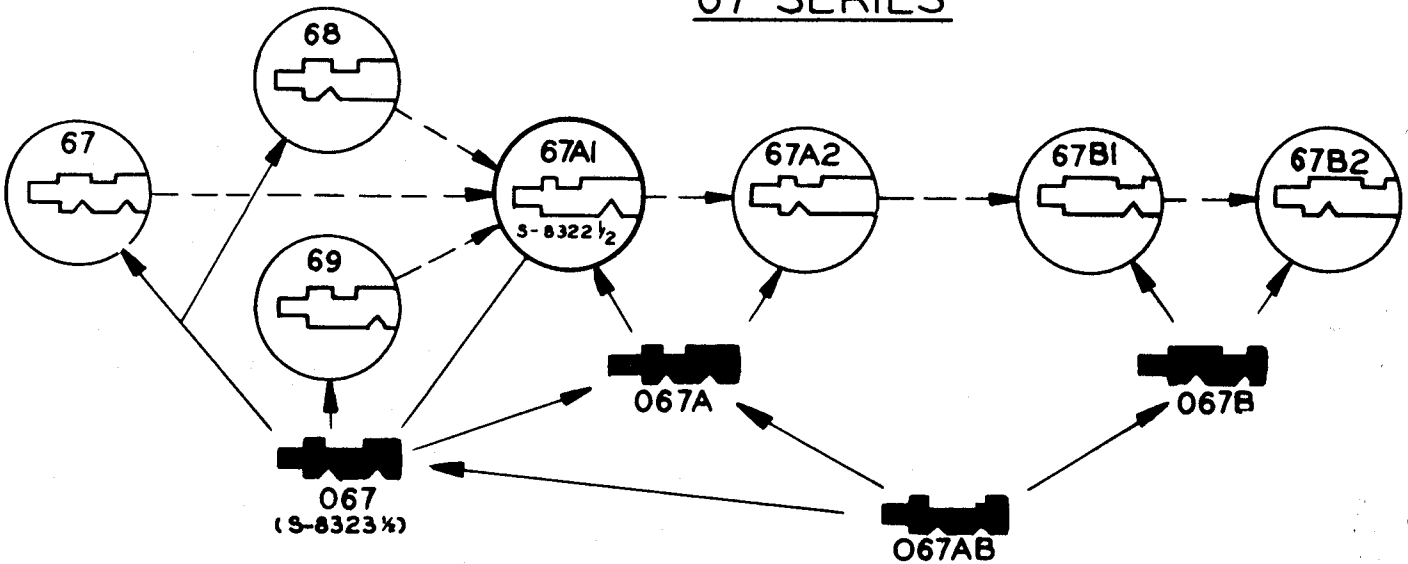
- SOLID LINES INDICATE MASTER KEY CONTROL
- DOTTED LINES INDICATE DIRECTION OF EXPANSION
- PLUG SECTIONS SHOWN
- MASTER KEY SECTIONS SHOWN SHADED

"X" BOW SERIES - CONTINUED

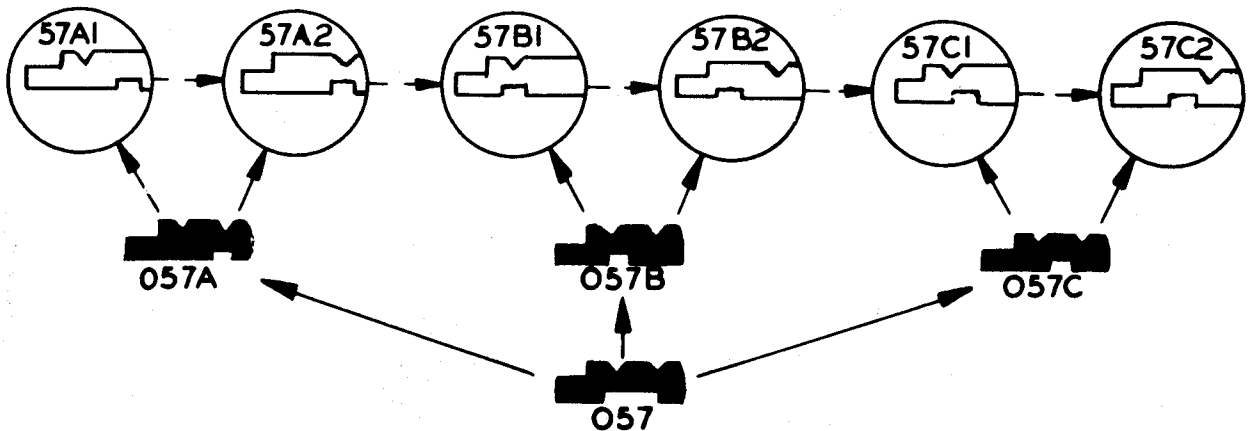
27 SERIES

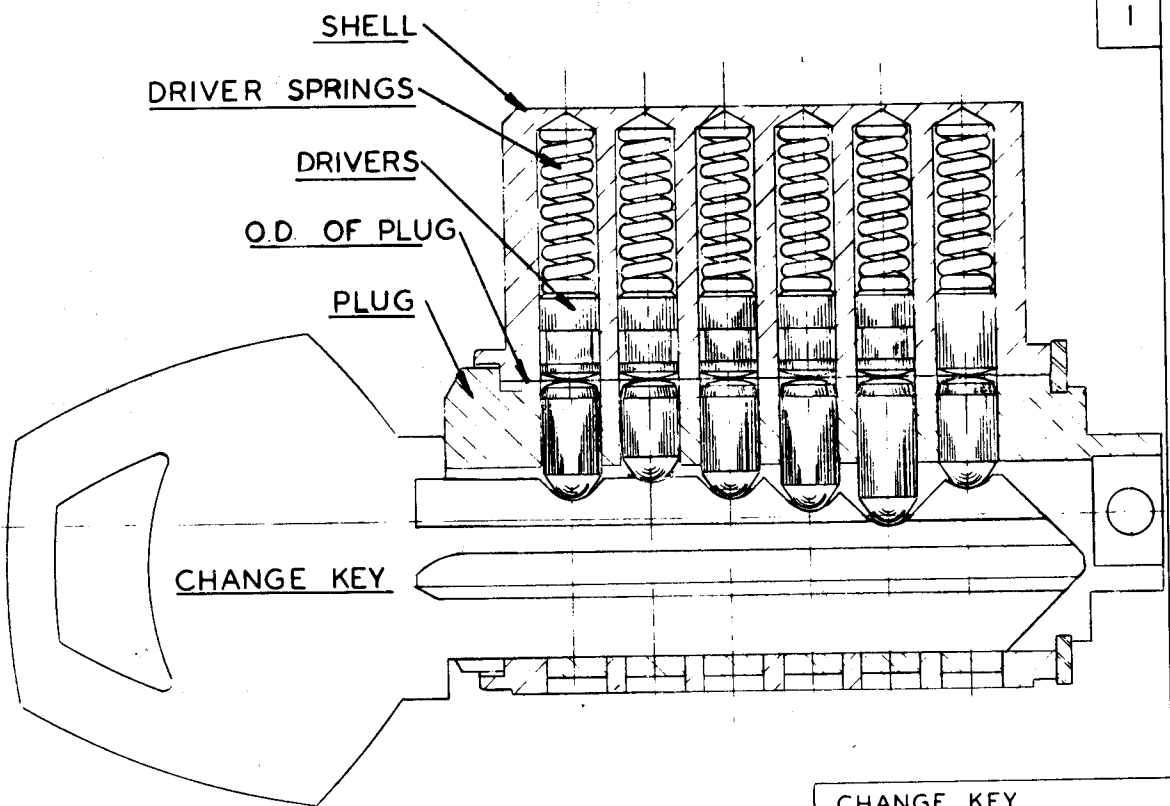


67 SERIES

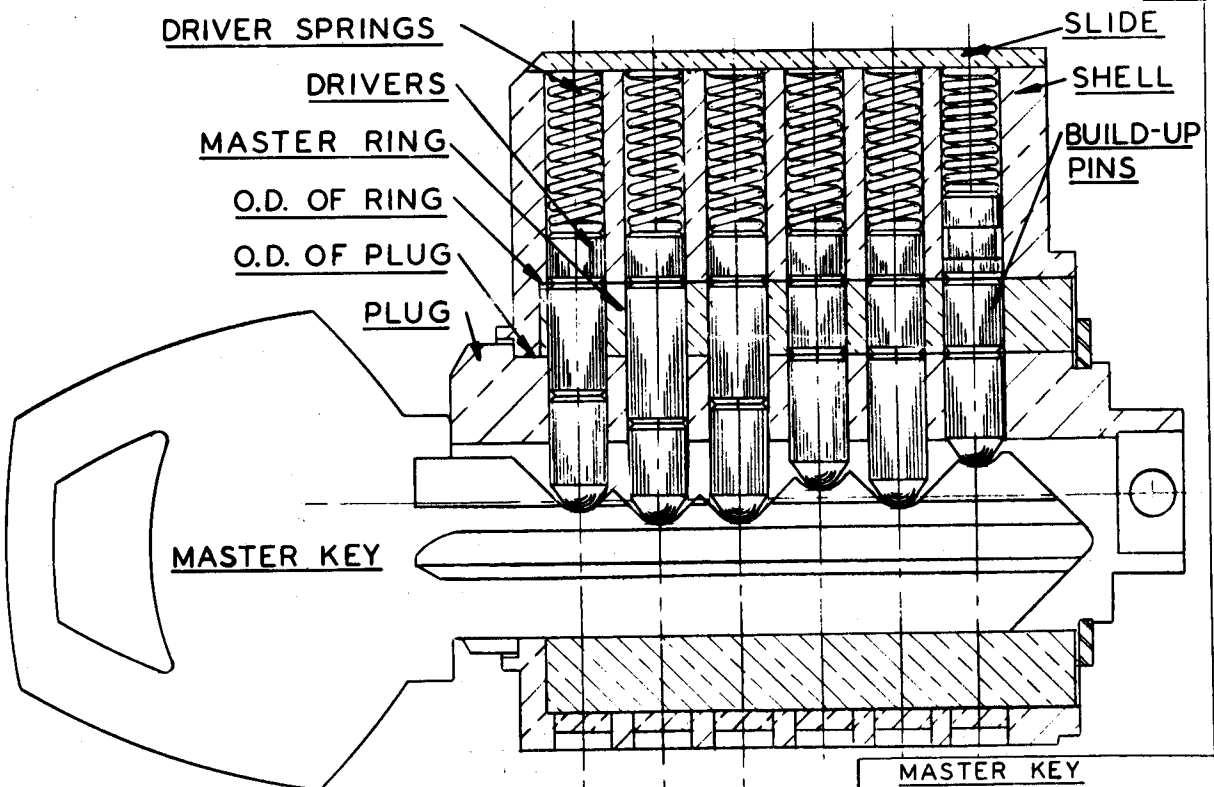


57 SERIES





CHANGE KEY
REGULAR
CYLINDER ASS'M.



MASTER KEY
MASTER RING
CYLINDER ASS'M.

3

DRIVER RIDES OVER EMPTY (SMALLER) HOLE DURING CONSTRUCTION

CONSTRUCTION MASTER PIN

CONSTRUCTION MASTER KEY

- AUXILIARY VIEW -

CONSTRUCTION MASTER KEY
CYLINDER ASS'M.
DURING CONSTRUCTION

4

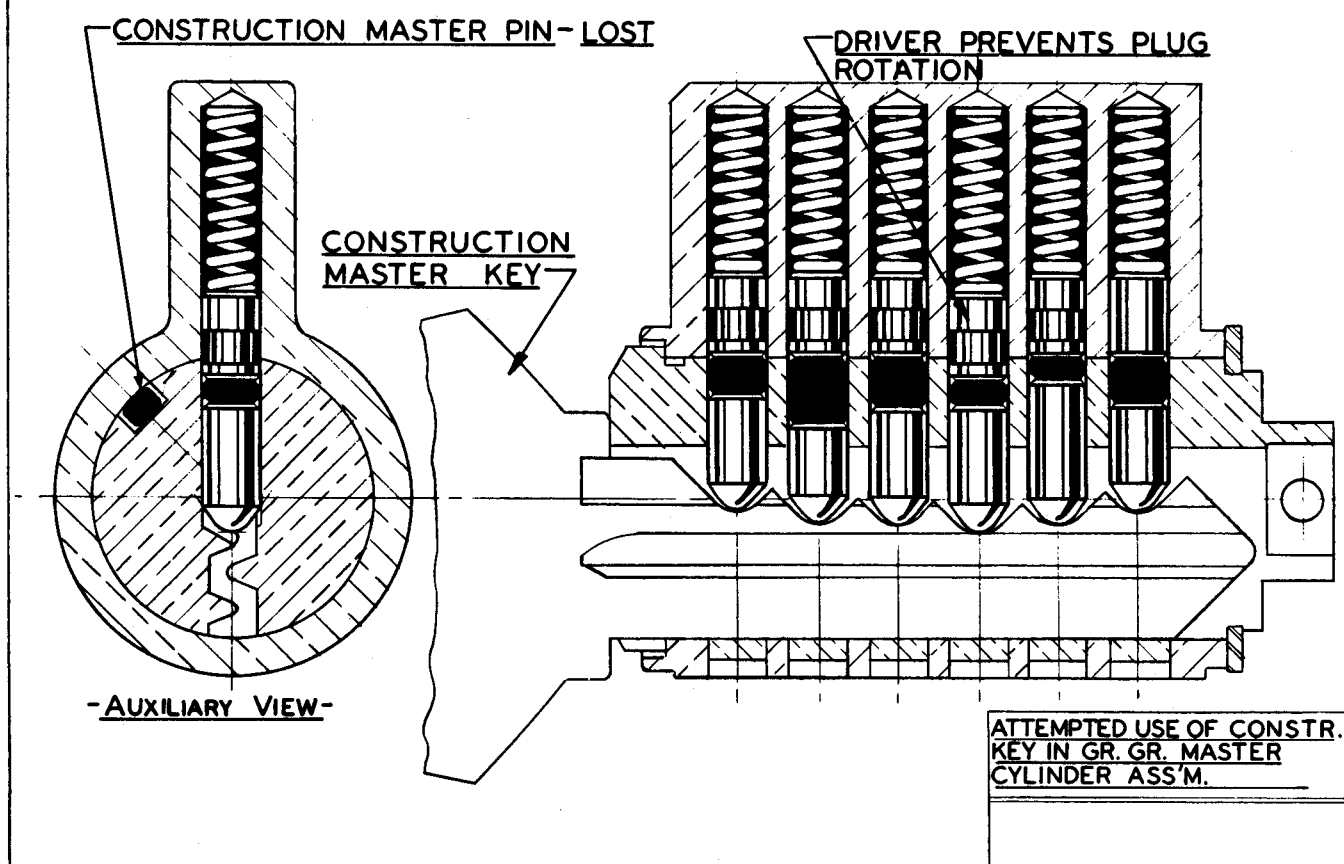
CONSTRUCTION MASTER PIN IS RAISED INTO DRIVER CHAMBER BY CHANGE KEY &
WHEN PLUG IS ROTATED IT IS FORCED INTO SIDE HOLE & LOST - THEREBY
CHANGING KEY COMBINATION

CONSTRUCTION MASTER PIN

CHANGE KEY

- AUXILIARY VIEW -

CONSTRUCTION KEY
CYLINDER - CHANGED OVER
BY CHANGE KEY



SECTION D

P & F CORBIN KEYS

<u>KEYWAY</u>	<u>PREFIX</u>	<u>NO. OF PINS</u>	<u>DESCRIPTION</u>	<u>REMARKS</u>
99	2K	5	Change Key	
	Y	4 or 5	Change Key	
	2H	6	Change Key	
	W	5	Master or Change Key	
	X	5	Master Key	
	A	5, 6 or 7	GM	This is a suffix (Ex.301A)
97	K	5	Change Key	
	None	5	Change Key	Change starts at 0200,000 and up
	YO	5	Change Key	First digit of no. is 0
	2W	5 or 6	Master or Change Key	
	WO	5	Master or Change Key	First digit of no. is 0
	J	6	Change Key	Previously known as 93½
	H	6 or 7	Change Key	
	XXO	5 or 6	Master	
		5, 6 or 7	GM	Prefix of 0 (ex. 0710)
AR	AR	5 or 6	Change Key	
	3W	5 or 6	Master Key	Always under GM
	XX	5 or 6	Master Key	
	AR	5, 6 or 7	GM	This is a suffix (ex. 710AR)
BL	4D	5	Change Key	
	BL	6	Change Key	
	3W	5 or 6	Master Key	Always under GM
	XX	5 or 6	Master Key	
	BL	5, 6 or 7	GM	This is a suffix (ex. 710BL)
BR	2D	5	Change Key	
	BR	6	Change Key	
	3W	5 or 6	Master Key	Always under GM
	BR	5, 6 or 7	GM	This is a suffix (Ex. 710BR)

<u>KEYWAY</u>	<u>PREFIX</u>	<u>NO. OF PINS</u>	<u>DESCRIPTION</u>	<u>REMARKS</u>
27	3K	5	Change Key	
	CR	5	Change Key	Starts CR 200,000 & up
	X	5	Master Key	
	3W	5 or 6	Change or MK	Always under GM
	XX	5 or 6	Master Key	
	3J	6	Change Key	Previously known as 23 $\frac{1}{2}$
	3H	6 or 7	Change Key	
	W	5-6 or 7	GM	This is a suffix (Ex.710W)
27A1 (S8322)	6K	5	Change Key	
	6J	6	Change Key	
	6W	5 or 6	Master Key	Always under GM
	WA1	5-6 or 7	GM	This is a suffix (Ex.710WA1)
27A2	8K	5	Change Key	
	8J	6	Change Key	
	8W	5 or 6	Master Key	Always under GM
	WA2	5-6 or 7	GM	This is a suffix (Ex.710WA2)
27 27A1 27A2	W12	5-6 or 7	GGM	This is a suffix (Ex.710W12) (Previously known as S-8323)
27B1	1K	5	Change Key	
	1J	6	Change Key	
	1W	5 or 6	Master Key	Always under GM
	WB1	5-6 or 7	GM	This is a suffix (Ex.710WB1)
27B2	9K	5	Change Key	
	9J	6	Change Key	
	9W	5 or 6	Master Key	Always under GM
	WB2	5-6 or 7	GM	This is a suffix (Ex.710WB2)
27AB	WAB	5-6 or 7	GGM	This is a suffix (Ex.710WAB)

<u>KEYWAY</u>	<u>PREFIX</u>	<u>NO. OF PINS</u>	<u>DESCRIPTION</u>	<u>REMARKS</u>
67	EA	5	Change Key	Starts at EA200,000 & up
	2L	5	" "	
	2S	6	" "	Previously known as 63½
	3X	5	Master Key	
	2E	5 or 6	" "	Always under GM system
	4X	5 or 6	" "	
	2T	6 or 7	Change Key	
	G	5-6 or 7	GM	This is a suffix (Ex. 710G)
67A1 (S83322½)	5L	5	Change Key	
	5S	6	" "	
	5E	5 or 6	Master Key	Always under GM
	GA1	5-6 or 7	GM	This is a suffix (Ex. 710GA1)
67A2	9L	5	Change Key	
	6S	6	" "	
	6F	5 or 6	Master Key	Always under GM
	GA2	5-6 or 7	GM	This is a suffix (Ex. 710GA2)
67 67A1 67A2	G12	5-6 or 7	GM	This is a suffix (Ex. 710G12) (Previously known as S-8323½)
67B1	7L	5	Change Key	
	7S	6	Change Key	
	7F	5 or 6	Master Key	Always under GM
	GB1	5-6 or 7	GM	This is a suffix (Ex. 710GB1)
67B2	8L	5	Change Key	
	8S	6	" "	
	8F	5 or 6	Master Key	
	GB2	5-6 or 7	GM	This is a suffix (Ex. 710GB2)
67AB	GAB	5-6 or 7	GGM	This is a suffix (Ex. 710GAB)

KEYWAY	PREFIX	NO. OF PINS	DESCRIPTION	REMARKS
77	EE	5	Change Key	Start at EE200,000 & Up
	6N	5	" "	
	6X	5	Master Key	
	7X	5 or 6	" "	
	6E	5 or 6	" "	Always under GM
	6P	6	Change Key	(Previously known as 73 $\frac{1}{4}$)
	6V	6 or 7	" "	
	H	5-6 or 7	GM	This is a suffix (Ex 710H)
77A1 (S8322-34)	9N	5	Change Key	
	9P	6	" "	
	9E	5-6 or 7	Master Key	Always under GM
	HA1	5-6 or 7	GM	This is a suffix (Ex 710HA1)
77A2	2N	5	Change Key	
	2P	6	" "	
	2F	5-6 or 7	Master Key	Always under GM
	HA2	5-6 or 7	GM	This is a suffix (Ex 710HA2)
77 77A1 77A2	H12	5-6 or 7	GM	This is a suffix (Ex 710H12) (Previously known as S-8323-3/4)
77B1	3N	5	Change Key	
	3P	6	" "	
	3F	5-6 or 7	Master Key	Always under GM
	HB1	5-6 or 7	GM	This is a suffix (Ex 710HB1)
77B2	4N	5	Change Key	
	4P	6	" "	
	4F	5-6 or 7	Master Key	Always under GM
	HB2	5-6 or 7	GM	This is a suffix (Ex 710HB2)
77AB	HAB	5-6 or 7	GGM	This is a suffix (Ex 710HAB)

<u>KEYWAY</u>	<u>PREFIX</u>	<u>NO. OF PINS</u>	<u>DESCRIPTION</u>	<u>REMARKS</u>
57A1	3A1	5, 6 or 7	Change Key	
	3AA	5, 6 or 7	Master Key	
	A1	5, 6 or 7	GM	This is a suffix (ex.710A1)
57A2	3A2	5, 6 or 7	Change Key	
	3AB	5, 6 or 7	Master Key	
	A2	5, 6 or 7	GM	This is a suffix (ex. 710A2)
57A	3MA	5, 6 or 7	Master Key	
	A	5, 6 or 7	GM	This is a suffix (ex. 710A)
57B1	3B1	5, 6 or 7	Change Key	
	3BA	5, 6 or 7	Master Key	
	B1	5, 6 or 7	GM	This is a suffix (ex. 710B1)
57B2	3B2	5, 6 or 7	Change Key	
	3BB	5, 6 or 7	Master Key	
	B2	5, 6 or 7	GM	This is a suffix (ex. 710B2)
57B	3MB	5, 6 or 7	Master Key	
	B	5, 6 or 7	GM	This is a suffix (ex. 710B)
57C1	3C1	5, 6 or 7	Change Key	
	3CA	5, 6 or 7	Master Key	
	C1	5, 6 or 7	GM	This is a suffix (ex. 710C1)
57C2	3C2	5, 6 or 7	Change Key	
	3CB	5, 6 or 7	Master Key	
	C2	5, 6 or 7	GM	This is a suffix (ex. 710C2)
57C	3MC	5, 6 or 7	Master Key	
	C	5, 6 or 7	GM	This is a suffix (ex. 710C)
57ABC	ABC	5, 6 or 7	GGM	This is a suffix (ex. 710ABC)

57 Series continued on next page

<u>KEYWAY</u>	<u>PREFIX</u>	<u>NO. OF PINS</u>	<u>DESCRIPTION</u>	<u>REMARKS</u>
59A	6MA	5 or 6	Master Key	
(59A1 & 59A2)	A12A	5 or 6	GMK	This is a suffix
59B1	6B1	5 or 6	Change Key	Always under GM
	8B1	5	" "	Never under GM
	9B1	6	" "	Never under GM
	6BA	5 or 6	Master Key	Always under GM
	8BA	5	Master Key	Never under GM
	9BA	6	" "	Never under GM
	B1B	5 or 6	GM	This is a suffix (Ex 710B1B)
59B2	6B2	5 or 6	Change Key	Always under GM
	8B2	5	" "	Never under GM
	9B2	6	" "	Never under GM
	6BB	5 or 6	Master Key	Always under GM
	8BB	5	" "	Never under GM
	9BB	6	" "	Never under GM
	B2B	5 or 6	GM	This is suffix (Ex 710B2B)
59B	6MB	5 or 6	Master Key	
(59B1 & 59B2)	B12B	5 or 6	GM	This is a suffix (Ex 710B34B)
59AB	BA	5 or 6	GGM	This is a suffix (Ex 710BA)
59C1	6C1	5 or 6	Change Key	Always under GM
	8C1	5	" "	Never under GM
	9C1	6	" "	Never under GM
	6CA	5 or 6	Master Key	Always under GM
	8CA	5	" "	Never under GM
	9CA	6	" "	Never under GM
	C1C	5 or 6	GM	This is a suffix (Ex 710C1C)

<u>KEYWAY</u>	<u>PREFIX</u>	<u>NO. OF PINS</u>	<u>DESCRIPTION</u>	<u>REMARKS</u>
59C2	6C2	5 or 6	Change Key	Always under GM
	8C2	5	" "	Never under GM
	9C2	6	" "	Never under GM
	6CB	5 or 6	Master Key	Always under GM
	8CB	5	" "	Never under GM
	9CB	6	" "	Never under GM
	C2C	5 or 6	GM	This is a suffix
59C	6MC	5 or 6	Master Key	
(59C1 & 59C2)	C12C	5 or 6	GM	This is a suffix
59D1	6D1	5 or 6	Change Key	Always under GM
	8D1	5	" "	Never under GM
	9D1	6	" "	Never under GM
	6DA	5 or 6	Master Key	Always under GM
	8DA	5	" "	Never under GM
	9DA	6	" "	Never under GM
	D1D	5 or 6	GM	This is a suffix
59D2	6D2	5 or 6	Change Key	Always under GM
	8D2	5	" "	Never under GM
	9D2	6	" "	Never under GM
	6DB	5 or 6	Master Key	Always under GM
	8DB	5	" "	Never under GM
	9DB	6	" "	Never under GM
59D	6MD	5 or 6	Master Key	
(59D1 & 59D2)	D12D	5 or 6	GM	This is a suffix
59CD	DC	5 or 6	GM	This is a suffix
59	DD	5 or 6	GGM	This is a suffix